

Online Supplement 1: Results of curriculum mapping for topics.

The scores presented here are the summed totals across all reviewers. Scores range from 0 (none of the reviewers found the curricular element important in relation to the complaint) to 5 (all found it important).

Table 1: Results of curriculum mapping for the Introduction & Scene Management module. Frequency of chief complaint in Kasama EFAR data is denoted by “n”.

Topic Chief complaint (n)	Introduction & Scene Management			
	The need for first aid training	History of emergency care & Zambian first aid	Zambian healthcare levels & referral system	Definition of an emergency
Chest pain (2)	5	5	1	5
Hypo/hyperglycaemia (5)	5	5	1	5
Diarrhoea/constipation (2)	5	5	1	5
Nausea/vomiting (1)	5	5	1	5
Abdominal pain/distention (1)	5	5	1	5
Suspected malaria (2)	5	5	1	5
Intoxication (2)	5	5	1	5
Loss of consciousness/fainting (3)	5	5	1	5
Seizure/convulsion (11)	5	5	1	5
Extremity pain (1)	5	5	1	5
Asthma/wheezing (9)	5	5	1	5
Cough (2)	5	5	1	5
Difficulty in breathing (2)	5	5	1	4
Foreign body airway obstruction (8)	0	0	1	0
Dehydration (5)	5	5	1	5
HIV complication (1)	5	5	1	5
Suspected anaemia (2)	5	5	1	5
Swelling (1)	5	5	1	5
Bee sting	5	5	1	5
Back injury	5	5	1	5
Bleeding (27)	5	5	1	5
Burn (1)	5	5	1	5
Chest injury	5	5	1	5
Extremity injury (2)	5	5	1	5
Head or neck injury (3)	5	5	1	5
Injury (unspecified) (3)	0	0	1	0
Open wound (2)	0	0	1	0
Road traffic accident (2)	0	0	1	0
Dislocation injury (1)	0	0	1	0

Table 1 (cont.): Results of curriculum mapping for the Introduction & Scene Management module.
Frequency of chief complaint in Kasama EFAR data is denoted by “n”.

Topic Chief complaint (n)	Introduction & Scene Management (cont.)			
	Principles of first aid	Limitations of first aid	Responsibilities & aims	Qualities of first aid
Chest pain (2)	5	5	5	5
Hypo/hyperglycaemia (5)	5	5	5	5
Diarrhoea/constipation (2)	5	5	5	5
Nausea/vomiting (1)	5	5	5	5
Abdominal pain/distention (1)	5	5	5	5
Suspected malaria (2)	5	5	5	5
Intoxication (2)	5	5	5	5
Loss of consciousness/fainting (3)	5	5	5	5
Seizure/convulsion (11)	5	5	5	5
Extremity pain (1)	5	5	5	5
Asthma/wheezing (9)	5	5	5	5
Cough (2)	5	5	5	5
Difficulty in breathing (2)	5	5	5	5
Foreign body airway obstruction (8)	0	0	0	5
Dehydration (5)	5	5	5	5
HIV complication (1)	5	5	5	5
Suspected anaemia (2)	5	5	5	5
Swelling (1)	5	5	5	5
Bee sting	5	5	5	5
Back injury	5	5	5	5
Bleeding (27)	5	5	5	5
Burn (1)	5	5	5	5
Chest injury	5	5	5	5
Extremity injury (2)	5	5	5	5
Head or neck injury (3)	5	5	5	5
Injury (unspecified) (3)	0	0	0	0
Open wound (2)	0	0	0	0
Road traffic accident (2)	0	0	0	0
Dislocation injury (1)	0	0	0	0

Table 1 (cont.): Results of curriculum mapping for the Introduction & Scene Management module.
Frequency of chief complaint in Kasama EFAR data is denoted by “n”.

Topic Chief complaint (n)	Introduction & Scene Management (cont.)				
	Socrates & doing harm	Good Samaritan law/Legal protection of EFARs	Definition of negligence	Patient abandonment	Patient consent
Chest pain (2)	5	5	5	5	5
Hypo/hyperglycaemia (5)	5	5	5	5	5
Diarrhoea/constipation (2)	5	5	5	5	5
Nausea/vomiting (1)	5	5	5	5	5
Abdominal pain/distention (1)	5	5	5	5	5
Suspected malaria (2)	5	5	5	5	5
Intoxication (2)	5	5	5	5	5
Loss of consciousness/fainting (3)	5	5	5	5	5
Seizure/convulsion (11)	5	5	5	5	5
Extremity pain (1)	5	5	5	5	5
Asthma/wheezing (9)	5	5	5	5	5
Cough (2)	5	5	5	5	5
Difficulty in breathing (2)	5	5	5	5	5
Foreign body airway obstruction (8)	0	1	0	0	0
Dehydration (5)	5	5	5	5	5
HIV complication (1)	5	5	5	5	5
Suspected anaemia (2)	5	5	5	5	5
Swelling (1)	5	5	5	5	5
Bee sting	5	5	5	5	5
Back injury	5	5	5	5	5
Bleeding (27)	5	5	5	5	5
Burn (1)	5	5	5	5	5
Chest injury	5	5	5	5	5
Extremity injury (2)	5	5	5	5	5
Head or neck injury (3)	5	5	5	5	5
Injury (unspecified) (3)	0	0	0	0	0
Open wound (2)	0	0	0	0	0
Road traffic accident (2)	0	0	0	0	0
Dislocation injury (1)	0	0	0	0	0

Table 1 (cont.): Results of curriculum mapping for the Introduction & Scene Management module.
Frequency of chief complaint in Kasama EFAR data is denoted by “n”.

Topic Chief complaint (n)	Introduction & Scene Management (cont.)			
	Hospital hand-over	Police reporting	Documentation & reporting	Religion, culture & tradition
Chest pain (2)	5	5	5	5
Hypo/hyperglycaemia (5)	5	5	5	5
Diarrhoea/constipation (2)	5	5	5	5
Nausea/vomiting (1)	5	5	5	5
Abdominal pain/distention (1)	5	5	5	5
Suspected malaria (2)	5	5	5	5
Intoxication (2)	5	5	5	5
Loss of consciousness/fainting (3)	5	5	5	5
Seizure/convulsion (11)	5	5	5	5
Extremity pain (1)	5	5	5	5
Asthma/wheezing (9)	5	5	5	5
Cough (2)	5	5	5	5
Difficulty in breathing (2)	5	5	5	5
Foreign body airway obstruction (8)	0	0	0	0
Dehydration (5)	5	5	5	5
HIV complication (1)	5	5	5	5
Suspected anaemia (2)	5	5	5	5
Swelling (1)	5	5	5	5
Bee sting	5	5	5	5
Back injury	5	5	5	5
Bleeding (27)	5	5	5	5
Burn (1)	5	5	5	5
Chest injury	5	5	5	5
Extremity injury (2)	5	5	5	5
Head or neck injury (3)	5	5	5	5
Injury (unspecified) (3)	0	0	0	0
Open wound (2)	0	0	0	0
Road traffic accident (2)	0	0	0	0
Dislocation injury (1)	0	0	0	0

Table 1 (cont.): Results of curriculum mapping for the Introduction & Scene Management module. Frequency of chief complaint in Kasama EFAR data is denoted by “n”.

Topic Chief complaint (n)	Introduction & Scene Management (cont.)		
	Calling for help	Scene size-up	Scene safety & PPE
Chest pain (2)	5	5	5
Hypo/hyperglycaemia (5)	5	5	5
Diarrhoea/constipation (2)	5	5	5
Nausea/vomiting (1)	5	5	5
Abdominal pain/distention (1)	5	5	5
Suspected malaria (2)	5	5	5
Intoxication (2)	5	5	5
Loss of consciousness/fainting (3)	5	5	5
Seizure/convulsion (11)	5	5	5
Extremity pain (1)	5	5	5
Asthma/wheezing (9)	5	5	5
Cough (2)	5	5	5
Difficulty in breathing (2)	5	5	5
Foreign body airway obstruction (8)	0	0	0
Dehydration (5)	5	5	5
HIV complication (1)	5	5	5
Suspected anaemia (2)	5	5	5
Swelling (1)	5	5	5
Bee sting	5	5	5
Back injury	5	5	5
Bleeding (27)	5	5	5
Burn (1)	5	5	5
Chest injury	5	5	5
Extremity injury (2)	5	5	5
Head or neck injury (3)	5	5	5
Injury (unspecified) (3)	0	0	0
Open wound (2)	0	0	0
Road traffic accident (2)	0	0	0
Dislocation injury (1)	0	0	0

Table 1 (cont.): Results of curriculum mapping for the Introduction & Scene Management module.
Frequency of chief complaint in Kasama EFAR data is denoted by “n”.

Topic Chief complaint (n)	Introduction & Scene Management (cont.)			
	Communication	Airway	Breathing	Circulation
Chest pain (2)	5	5	5	5
Hypo/hyperglycaemia (5)	5	5	5	5
Diarrhoea/constipation (2)	5	5	5	5
Nausea/vomiting (1)	5	5	5	5
Abdominal pain/distention (1)	5	5	5	5
Suspected malaria (2)	5	5	5	5
Intoxication (2)	5	5	5	5
Loss of consciousness/fainting (3)	5	5	5	5
Seizure/convulsion (11)	5	5	5	5
Extremity pain (1)	5	5	5	5
Asthma/wheezing (9)	5	5	5	5
Cough (2)	5	5	5	5
Difficulty in breathing (2)	5	5	5	5
Foreign body airway obstruction (8)	4	4	4	4
Dehydration (5)	5	5	5	5
HIV complication (1)	5	5	5	5
Suspected anaemia (2)	5	5	5	5
Swelling (1)	5	5	5	5
Bee sting	5	5	5	5
Back injury	5	5	5	5
Bleeding (27)	5	5	5	5
Burn (1)	5	5	5	5
Chest injury	5	5	5	5
Extremity injury (2)	5	5	5	5
Head or neck injury (3)	5	5	5	5
Injury (unspecified) (3)	4	5	5	5
Open wound (2)	5	5	0	0
Road traffic accident (2)	5	5	0	5
Dislocation injury (1)	5	5	5	5

Table 1 (cont.): Results of curriculum mapping for the Introduction & Scene Management module.
Frequency of chief complaint in Kasama EFAR data is denoted by “n”.

Topic Chief complaint (n)	Introduction & Scene Management (cont.)			
	Disability & exposure	Reassessment	Infection prevention	MCIs ¹
Chest pain (2)	5	5	0	1
Hypo/hyperglycaemia (5)	4	5	0	1
Diarrhoea/constipation (2)	5	5	1	1
Nausea/vomiting (1)	4	5	1	1
Abdominal pain/distention (1)	5	5	0	1
Suspected malaria (2)	4	5	1	1
Intoxication (2)	5	5	0	1
Loss of consciousness/fainting (3)	4	5	0	1
Seizure/convulsion (11)	5	5	0	1
Extremity pain (1)	4	5	0	1
Asthma/wheezing (9)	5	5	1	1
Cough (2)	4	5	1	1
Difficulty in breathing (2)	5	5	1	1
Foreign body airway obstruction (8)	4	4	0	1
Dehydration (5)	5	5	0	1
HIV complication (1)	4	5	1	1
Suspected anaemia (2)	5	5	1	1
Swelling (1)	4	5	0	1
Bee sting	5	5	0	1
Back injury	4	5	0	1
Bleeding (27)	5	5	1	1
Burn (1)	4	5	0	1
Chest injury	5	5	0	1
Extremity injury (2)	4	5	0	1
Head or neck injury (3)	5	5	0	1
Injury (unspecified) (3)	4	5	0	1
Open wound (2)	0	5	1	1
Road traffic accident (2)	4	5	0	1
Dislocation injury (1)	4	5	1	1

¹ MCI: Mass casualty incident

Table 2: Results of curriculum mapping for the Injuries module. Frequency of chief complaint in Kasama EFAR data is denoted by “n”.

Topic Chief complaint (n)	Injuries					
	Approach to patient	First aid for common sports injuries	Head & spinal injuries	Bleeding	Fractures & soft tissue injuries	Burns
Chest pain (2)	5	0	5	5	5	0
Hypo/hyperglycaemia (5)	5	0	5	5	5	0
Diarrhoea/constipation (2)	5	0	5	5	5	0
Nausea/vomiting (1)	5	0	5	5	5	0
Abdominal pain/distention (1)	5	0	5	5	5	0
Suspected malaria (2)	5	0	5	5	5	0
Intoxication (2)	5	0	5	5	5	0
Loss of consciousness/fainting (3)	5	0	5	5	5	0
Seizure/convulsion (11)	5	0	5	5	5	0
Extremity pain (1)	5	0	5	5	5	0
Asthma/wheezing (9)	5	0	5	5	5	0
Cough (2)	5	0	5	5	5	0
Difficulty in breathing (2)	5	0	5	5	5	0
Foreign body airway obstruction (8)	4	0	4	4	4	0
Dehydration (5)	5	0	5	5	5	0
HIV complication (1)	5	0	5	5	5	0
Suspected anaemia (2)	5	0	5	5	5	0
Swelling (1)	5	0	5	5	5	0
Bee sting	5	0	5	5	5	0
Back injury	5	1	5	5	5	0
Bleeding (27)	5	1	5	5	5	0
Burn (1)	5	1	5	5	5	0
Chest injury	5	1	5	5	5	0
Extremity injury (2)	5	1	5	5	5	0
Head or neck injury (3)	5	1	5	5	5	0
Injury (unspecified) (3)	5	1	5	5	5	0
Open wound (2)	5	1	0	5	0	0
Road traffic accident (2)	5	0	5	5	0	0
Dislocation injury (1)	5	1	5	5	5	0

Table 3: Results of curriculum mapping for the Medical Emergencies module. Frequency of chief complaint in Kasama EFAR data is denoted by “n”.

Topic Chief complaint (n)	Medical Emergencies				
	Unconscious- ness	Stroke	Seizures	Fever	Hypo- glycaemia
Chest pain (2)	0	0	0	0	0
Hypo/hyperglycaemia (5)	5	2	5	0	5
Diarrhoea/constipation (2)	0	0	0	5	0
Nausea/vomiting (1)	0	1	0	5	0
Abdominal pain/distention (1)	0	0	0	5	0
Suspected malaria (2)	0	0	1	5	0
Intoxication (2)	5	1	5	0	5
Loss of consciousness/fainting (3)	5	5	5	1	5
Seizure/convulsion (11)	5	2	5	5	5
Extremity pain (1)	0	0	0	0	0
Asthma/wheezing (9)	0	0	0	0	0
Cough (2)	0	0	0	5	0
Difficulty in breathing (2)	0	0	0	5	0
Foreign body airway obstruction (8)	4	0	0	0	0
Dehydration (5)	0	0	0	0	0
HIV complication (1)	0	0	0	1	0
Suspected anaemia (2)	0	0	0	0	0
Swelling (1)	0	0	0	0	0
Bee sting	0	0	0	0	0
Back injury	0	0	0	0	0
Bleeding (27)	5	0	0	0	0
Burn (1)	0	0	0	0	0
Chest injury	0	0	0	0	0
Extremity injury (2)	0	0	0	0	0
Head or neck injury (3)	0	0	0	0	0
Injury (unspecified) (3)	0	0	0	0	0
Open wound (2)	0	0	0	0	0
Road traffic accident (2)	1	0	0	1	1
Dislocation injury (1)	0	0	0	0	0

Table 3 (cont.): Results of curriculum mapping for the Medical Emergencies module. Frequency of chief complaint in Kasama EFAR data is denoted by “n”.

Topic Chief complaint (n)	Medical Emergencies (cont.)				
	Dehydration	Drug & substance abuse & psychosis	Poisoning	Anaphylaxis	Difficulty breathing
Chest pain (2)	0	0	0	0	1
Hypo/hyperglycaemia (5)	0	0	0	0	0
Diarrhoea/constipation (2)	5	1	1	0	0
Nausea/vomiting (1)	5	1	1	0	0
Abdominal pain/distention (1)	0	1	1	0	0
Suspected malaria (2)	0	0	0	0	0
Intoxication (2)	5	5	5	0	5
Loss of consciousness/fainting (3)	5	1	1	0	5
Seizure/convulsion (11)	5	0	1	0	5
Extremity pain (1)	0	0	0	0	0
Asthma/wheezing (9)	0	0	0	0	5
Cough (2)	0	0	0	0	5
Difficulty in breathing (2)	0	0	0	0	5
Foreign body airway obstruction (8)	0	0	0	0	5
Dehydration (5)	5	0	0	0	0
HIV complication (1)	0	0	0	0	0
Suspected anaemia (2)	0	0	0	0	1
Swelling (1)	0	0	0	0	0
Bee sting	0	0	0	1	0
Back injury	0	0	0	0	0
Bleeding (27)	4	0	0	0	0
Burn (1)	5	0	0	0	0
Chest injury	0	0	0	0	1
Extremity injury (2)	0	0	0	0	0
Head or neck injury (3)	0	0	0	0	0
Injury (unspecified) (3)	4	0	0	0	0
Open wound (2)	4	0	0	0	0
Road traffic accident (2)	4	0	0	0	1
Dislocation injury (1)	4	0	0	0	0

Table 3 (cont.): Results of curriculum mapping for the Medical Emergencies module. Frequency of chief complaint in Kasama EFAR data is denoted by “n”.

Topic Chief complaint (n)	Medical Emergencies (cont.)				
	Headache	Chest pain	Abdominal pain	Extremity pain	Generalised pain
Chest pain (2)	0	5	0	0	0
Hypo/hyperglycaemia (5)	5	0	0	0	0
Diarrhoea/constipation (2)	0	0	5	0	0
Nausea/vomiting (1)	1	1	5	0	0
Abdominal pain/distention (1)	0	0	5	0	0
Suspected malaria (2)	5	0	0	0	0
Intoxication (2)	5	0	5	0	0
Loss of consciousness/fainting (3)	1	1	0	0	0
Seizure/convulsion (11)	1	0	0	0	0
Extremity pain (1)	0	0	0	5	5
Asthma/wheezing (9)	0	5	0	0	0
Cough (2)	0	5	0	0	0
Difficulty in breathing (2)	0	5	0	0	0
Foreign body airway obstruction (8)	0	0	0	0	0
Dehydration (5)	1	0	5	0	0
HIV complication (1)	0	0	0	0	0
Suspected anaemia (2)	5	0	0	0	0
Swelling (1)	0	0	0	0	0
Bee sting	0	0	0	0	0
Back injury	0	0	0	0	0
Bleeding (27)	0	0	0	0	0
Burn (1)	0	0	0	0	0
Chest injury	0	5	0	0	0
Extremity injury (2)	0	0	0	0	0
Head or neck injury (3)	5	0	0	0	0
Injury (unspecified) (3)	1	1	1	0	0
Open wound (2)	0	0	0	0	0
Road traffic accident (2)	2	1	1	0	0
Dislocation injury (1)	0	0	0	0	0

Table 4: Results of curriculum mapping for the Obstetrics & Gynaecology module. Frequency of chief complaint in Kasama EFAR data is denoted by “n”.

Topic Chief complaint (n)	Obstetric & Gynaecology
Chest pain (2)	0
Hypo/hyperglycaemia (5)	0
Diarrhoea/constipation (2)	0
Nausea/vomiting (1)	0
Abdominal pain/distention (1)	3
Suspected malaria (2)	0
Intoxication (2)	0
Loss of consciousness/fainting (3)	1
Seizure/convulsion (11)	0
Extremity pain (1)	0
Asthma/wheezing (9)	0
Cough (2)	0
Difficulty in breathing (2)	0
Foreign body airway obstruction (8)	0
Dehydration (5)	0
HIV complication (1)	0
Suspected anaemia (2)	0
Swelling (1)	0
Bee sting	0
Back injury	0
Bleeding (27)	5
Burn (1)	0
Chest injury	0
Extremity injury (2)	0
Head or neck injury (3)	0
Injury (unspecified) (3)	0
Open wound (2)	0
Road traffic accident (2)	0
Dislocation injury (1)	0

Table 5: Results of curriculum mapping for the Environmental Emergencies section. Frequency of chief complaint in Kasama EFAR data is denoted by “n”.

Topic Chief complaint (n)	Environmental Emergencies			
	Bites & stings	Electrocution	Lightning	Drowning
Chest pain (2)	0	1	0	0
Hypo/hyperglycaemia (5)	0	0	0	0
Diarrhoea/constipation (2)	0	0	0	0
Nausea/vomiting (1)	0	0	0	0
Abdominal pain/distention (1)	0	0	0	0
Suspected malaria (2)	0	0	0	0
Intoxication (2)	0	0	0	0
Loss of consciousness/fainting (3)	0	2	2	1
Seizure/convulsion (11)	0	1	2	0
Extremity pain (1)	1	0	1	0
Asthma/wheezing (9)	1	0	0	0
Cough (2)	0	0	0	0
Difficulty in breathing (2)	2	0	0	3
Foreign body airway obstruction (8)	0	0	0	0
Dehydration (5)	0	0	0	0
HIV complication (1)	0	0	0	0
Suspected anaemia (2)	0	0	0	0
Swelling (1)	2	0	0	0
Bee sting	5	0	0	0
Back injury	0	1	1	0
Bleeding (27)	0	0	0	0
Burn (1)	0	2	3	0
Chest injury	0	0	0	0
Extremity injury (2)	0	0	0	0
Head or neck injury (3)	0	1	1	0
Injury (unspecified) (3)	0	1	0	0
Open wound (2)	0	0	0	0
Road traffic accident (2)	0	0	0	0
Dislocation injury (1)	0	1	0	0